

MAY 19 2008

CLAIM AMENDMENT

What is claimed is:

Claims 1 to 38. (canceled)

39. (new) A reinforcing bar coupler for coupling an overlapped first and second reinforcing bars (1, 1a), which are formed a plurality of semi-annular ribs (12) and longitudinal ribs (11), the reinforcing bar coupler comprising:

a base sleeve (2, 2b) forming an outer U shaped container and an inner W shaped dual half-cylindrical cavities with a top opening (23) for mounting the first and second reinforcing bars (1, 1a) laid in parallel, an inner surface of the W shaped dual half-cylindrical cavities formed a plurality of semi-annular grooves (26) for fitting the semi-annular ribs (12) and semi-cylindrical ridges (24) of the first and second reinforcing bars (1, 1a), and a pair of locking parts (27) along with both edges of lateral walls (25),

a cover sleeve (3, 3b) forming a M shaped dual arch cut-outs on an lower surface with semi-annular grooves (32) and semi-cylindrical ridges (31) for fitting the semi-annular ribs (12) of the first and second reinforcing bars (1, 1a) and a flat top surface (33) at opposite upper surface, and

a wedge (4, 4b) having gradually decreasing thickness along with the axial direction, and a pair of locking sections (45) along with both edges (46) for firmly coupling the first and second reinforcing bars (1, 1a) as axially slide advancing into said base sleeve (2, 2b).

40. (new) The reinforcing bar coupler according to claim 39, wherein said locking parts (27) of the base sleeve (2, 2b) are integrally formed a right-triangle shaped edge with inwardly slanted surfaces (29), said locking sections (45) of the wedge (4, 4b) are integrally formed a

right-triangle shape groove with outwardly slanted surfaces (46), both slanted surfaces (29, 46) have same slopes for smoothly mating each other and press-bonding the first and second reinforcing bars (1, 1a).

41. (new) The reinforcing bar coupler according to claim 39, wherein interval of the semi-annular grooves (26) and semi-cylindrical ridges (24) of said base sleeve (2, 2b) has same that of the semi-annular ribs (12) of the first and second reinforcing bars (1, 1a), and outer surface of said base sleeve (2, 2b) formed multiple of semi-annular ribs (22) and longitudinal ribs (21) same shape as the semi-annular ribs (12) and longitudinal ribs (11) of the first and second reinforcing bars (1, 1a).

42. (new) The reinforcing bar coupler according to claim 41, wherein an overall length of said base sleeve (2, 2b) is a half interval of the semi-annular ribs shorter than that of said cover sleeve (3, 3b), a set of serrations (33a) formed at one end portion of the flat top surface (33) of the cover sleeve (3, 3b), said wedge (4, 4b) forming a flat bottom surface (43) for contacting with said flat top surface (33) of the cover sleeve (3, 3b), a set of serrations (43a) formed at one end portion of the flat bottom surface (43) of said wedge (4, 4b), more than one groove (44) formed on said flat bottom surface (43) along with the axial direction.

43. (new) The reinforcing bar coupler according to claim 39, wherein an interval of the semi-annular grooves (26) and semi-cylindrical ridges (24) of the base sleeve (2, 2b) and the cover sleeve (3, 3b) is a half that of the semi-annular ribs (12) of the reinforcing bars (1, 1a).

44. (new) The reinforcing bar coupler according to claim 39, wherein the base sleeve (2b) and the wedge (4b) are produced through elastic process with a uniform thickness of steel

plate, said locking parts (27) of the base sleeve (2b) are bent to have a clearance slightly less than a thickness of said locking sections (45) of the wedge (4b) for tightly press-fitting to the clearance, said locking sections (45) of the wedge (4b) formed laterally bent-up and gradually decreased its height along with the axial direction, and a striking head (42) formed at the higher end.

45. (new) A reinforcing bar coupler for coupling an overlapped first and second reinforcing bars (1, 1a), which are formed a plurality of semi-annular ribs (12) and longitudinal ribs (11), the reinforcing bar coupler comprising:

a base sleeve (2a) forming an outer U shaped container and an inner W shaped dual half-cylindrical cavities with a top opening (23) for mounting the first and second reinforcing bars (1, 1a) laid in parallel, an inner surface of the W shaped dual half-cylindrical cavities formed a plurality of semi-annular grooves (26) for fitting the semi-annular ribs (12) and semi-cylindrical ridges (24) of the first and second reinforcing bars (1, 1a), and a pair of locking parts (27) along with both edges of lateral walls (25), and

a wedge (4a) having gradually decreasing thickness along with the axial direction, and a pair of locking sections (45) along with both edges (46) for firmly coupling the first and second reinforcing bars (1, 1a) as axially slide advancing into said base sleeve (2a), wherein the wedge (4a) forms a flat bottom surface (43) with a serration (43a), a chamfered edge (41) at a thinner front end and a striking head (42) at the thicker rear end for striking to insert.

46. (new) The reinforcing bar coupler according to claim 45, wherein the base sleeve (2a) and the wedge (4a) are produced through elastic process with a uniform thickness of steel plate, said locking parts (27) of the base sleeve (2a) are bent to have a clearance slightly less than a thickness of said locking sections (45) of the wedge (4a) for tightly press-fitting to the

clearance, said locking sections (45) of the wedge (4a) formed laterally bent-up at both edges and gradually decreased its height along with the axial direction, and a striking head (42) formed at the higher rear end.

47. (new) The reinforcing bar coupler according to claim 45, wherein said locking parts (27) of the base sleeve (2a) are integrally formed a right-triangle shape edge with outwardly slanted surfaces (29) at both edges of the lateral walls (25), said locking sections (45) of the wedge (4a) are integrally formed a U-shape hook with inwardly slanted surfaces (46), both slanted surfaces (29, 46) have same slopes for smoothly mating each other and firmly press-bonding the first and second reinforcing bars (1, 1a), and a bottom surface of the wedge (4a) formed a serration (43a).